

FACILITY INSPECTION REPORT

OFFICE NO:

INSPECTOR(S): **Ryan Foster (Tt)**

PCA System Task No: _____

8365919001	William Koot	Koot Dairy
WDID NUMBER	OWNER NAME	FACILITY NAME
R8-2007-0001	8762 Kimball Avenue	8762 Kimball Avenue
NPDES NUMBER	OWNER ADDRESS	FACILITY ADDRESS
	Chino, CA 91710	Chino, CA 91710
	OWNER CITY AND STATE	FACILITY CITY AND STATE
	William Koot (owner)	Nick Koot
SCHED. INSP. DATE	OWNER CONTACT	FACILITY CONTACT
12/8/2011	(909) 393-1955	(909) 286-1764
ACTUAL INSP. DATE	OWNER PHONE NO.	FACILITY PHONE NO.
	FACILITY LATITUDE: 33.969092	FACILITY LONGITUDE: -117.612594

INSPECTION TYPE (check one)

- ☐ (A1) "A" type compliance -- (EPA Type S)
- ☒ (B1) "B" type compliance -- (EPA Type C)
- ☐ (02) Noncompliance follow-up - Correction of a previously identified violation
- ☐ (03) Enforcement follow-up - Enforcement action is being met
- ☐ (04) Complaint - Complaint
- ☐ (05) Pre-requirement
- ☐ (06) Miscellaneous
- ☐ (07) Pretreatment audit (Every 5 years)
- ☐ (08) Pretreatment compliance (Yearly except audit year)

_____ If this is an EPA inspection not mentioned above, please note type (e.g., biomonitoring, performance audit, diagnostic, etc.)

- | | |
|------------|---|
| Yes | Were potential violations noted during this inspection? (Yes/No/Pending Sample Results) |
| No | Was this a quality assurance-based inspection? |
| No | Were bioassay samples collected? |
| No | Were water quality samples collected? |

INSPECTION SUMMARY

The overall facility rating, on a 1 (unreliable) to 5 (reliable) scale, was determined to be 2 = Marginal. Koot Dairy was rated "2 = Marginal" because the wastewater lagoons and disposal pastures had not been recently scraped, manure piles were present in Pasture #2, and runoff from multiple areas could flow off site to the ditch along Kimball Avenue.

EWMP was certified by the facility's engineer/consultant on 6/18/2003.

The EWMP WAS NOT fully implemented at this facility.

Facility Housekeeping:

- The facility representative stated that impoundments are cleaned every three years, approximately, but did not remember the date of the most recent cleaning.
- Solid manure and wastewater were observed on the grassy area between the milk barn and Kimball Avenue (Photo 4). This area is not contained and drains to Kimball Avenue.
- During the inspection workers were scraping and piling corral manure for off site removal (Photo 10).
- Manure piles of undermined age were present in Pasture #2 (Photo 15).
- Accumulated manure and ponded wastewater were present at the northern end of Pasture #1 (Photo 11 and 12).
- Improperly stored or disposed chemicals were not observed during the inspection.

Freeboard in fullest lagoon was estimated to be 5 feet.

Additional information regarding facility conditions, Engineered Waste Management Plan (EWMP) implementation issues, or potential violations can be found on subsequent pages of this report.

Koot Dairy

Tetra Tech, Inc. (Tt)

FACILITY INSPECTION REPORT

OFFICE NO:

INSPECTOR(S): **Ryan Foster (Tt)**

PCA System Task No: _____

INSPECTORS DATA:

INITIALS WRF SIGNATURE W Ryan Foster DATE 2/21/2012

For Internal Use: Reviewed By: (1) _____ (2) _____ (3) _____

CIWQS Data Entry Date: _____ Regional Board File Number: _____

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EPA SUGGESTED INSPECTION CHECKLIST

- | | | | |
|--|---|---|--|
| <input checked="" type="checkbox"/> Permit | <input type="checkbox"/> Flow Measurement | <input type="checkbox"/> Pretreatment | <input checked="" type="checkbox"/> Operations Maintenance |
| <input checked="" type="checkbox"/> Records/Reports | <input type="checkbox"/> Laboratories | <input type="checkbox"/> Compliance Schedules | <input type="checkbox"/> Sludge Disposal |
| <input checked="" type="checkbox"/> Facility Site Review | <input type="checkbox"/> Eff/Receiving Waters | <input type="checkbox"/> Self-Monitoring | <input type="checkbox"/> Other |

POTENTIAL VIOLATIONS (IF APPLICABLE)

- *The discharger had not fully implemented its EWMP.*
- *The discharger did not maintain containment structures to retain all wastewater within the facility.*
- *A marker was not placed within each pond or impoundment to indicate the minimum capacity necessary to contain the runoff and direct precipitation of the 25-year, 24-hour rainfall event.*

DATE OF POTENTIAL VIOLATION:

DATE OF POTENTIAL VIOLATION DETERMINATION: **12/8/2011**

DESCRIPTION (200 character limit):

Refer to EWMP Implementation, Inspection Observations, and Containment Berm Maintenance for discussion of potential violations.

INSPECTION OBSERVATIONS

ANIMALS ON SITE DURING INSPECTION

Milk Cows:	1,400	Dry Cows:	300	Heifers:	0
Calves:	400	Other:	10		

- Containment pond depth markers were not in place as required by the Permit.
Depth markers were not present in any of the lagoons.
- Mortalities were disposed of in accordance with Permit requirements.
Stiles retrieves mortalities for off site rendering.
- The Discharger is conducting weekly containment pond inspections as required by the Permit.
- Manure tracking manifests were reviewed for all manure hauling events.
- The Discharger did provide manure recipients with the most current nutrient analysis.
- The Discharger was not on site to provide 5 years worth of required records and reports for review OR the dairy has not been in the current operator's control for five years.
Nick Koot, the facility operator, was not available to provide the monitoring data.

ADDITIONAL COMMENTS, SPECIAL INSTRUCTIONS, ITEMS FOR FOLLOW UP ON FUTURE INSPECTIONS, NOTES, ETC.

The facility is a large dairy with a reported animal population of 1,400 milk cows, 300 dry cows, and 400 calves on the day of inspection. The inspector met with William Koot, the facility owner, at the beginning of the inspection. The inspector then called Mr. Koot's son, Nick, for additional information. Neither William nor Nick Koot accompanied the inspector on the site walk.

Facility wastewater consists of milk barn wash water and storm water runoff from corrals and other portions of the production area. Facility wastewater collects in a system of five lagoons. Milk barn wash water is piped to Lagoon #1. Wastewater stored in Lagoon #1 can be directed onto Pasture #1 or #2 for irrigation or transferred to one of the other facility lagoons.

Wastewater was being conveyed to Lagoon #1 through a ditch at the time of inspection (Photo 6). Excess water from pastures is contained by berms at the down gradient end and can be pumped to one or more lagoons. Lagoon #1 is connected to Lagoon #5 by a channel cut into a common berm between the two lagoons. Lagoon #5 has an emergency spillway (GPS coordinates N 33.96890, W 117.61663) to Kimball Avenue (Photo 16).

REVIEW OF FACILITY'S MOST RECENT ANNUAL REPORT

ANNUAL REPORT REVIEWED: **Jan 1, 2010 - Dec 31, 2010**

REPORTED ANIMAL POPULATION

Milk Cows:	1,300	No. Dry Cows:	300	Heifers:	0
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Koot Dairy

Tetra Tech, Inc. (Tt)

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Calves: **500**

Others: **0**

MANURE DISPOSAL

Amount of manure spread on cropland at the facility: **None Reported**

Amount of manure hauled away from the facility: **6800 tons**

Name and location of the composting operation, or, if the manure was hauled to cropland, the owner or tenant, and the destination address:

Viramontes-Hyponex (Chino, CA)

ENGINEERED WASTE MANAGEMENT PLAN (EWMP) REVIEW

Did the inspector review the EWMP in the RWQCB file?

Yes

Did the facility have a copy of the EWMP on-site and available for review?

Undetermined

Date EWMP was prepared:

3/1/2003

EWMP prepared by:

Nolte Engineering

Santa Ana RWQCB EWMP acceptance date:

EWMP was certified by the facility's engineer/consultant on 6/18/2003.

THE EWMP WAS NOT FULLY IMPLEMENTED:

The following items were not constructed and/or maintained as specified in the EWMP.

- 1) The EWMP stated that Corrals #9 and #10 need to be regraded to ensure that on-site storm water runoff is contained. Corral #10 appeared to still drain south and away from Lagoon #1 (Photo 3) and Corral #9 was not regraded or contained to prevent runoff to Kimball Avenue (Photo 5).
- 2) Pastures #1 and #2 are used for wastewater disposal/percolation and did not appear to have been disced in the last year (Photos 11, 12, and 15). The EWMP states that percolation areas should be disced, every year, to a depth of 18 inches to ensure percolation.
- 3) Accumulated solids were observed in Lagoon #1, #3, #4, #5 and Pasture #1 (Photos 9, 11, 12, 13, 14, 16, and 17). The EWMP directs that lagoon solids should be removed every summer to ensure full capacity of in the lagoons before the start of the next winter season.

INSPECTION SPECIFIC MANURE AND WASTEWATER INFORMATION

DISCUSSION OF FACILITY HOUSEKEEPING:

- The facility representative stated that impoundments are cleaned every three years, approximately, but did not remember the date of the most recent cleaning.
- Solid manure and wastewater were observed on the grassy area between the milk barn and Kimball Avenue (Photo 4). This area is not contained and drains to Kimball Avenue.
- During the inspection workers were scraping and piling corral manure for off site removal (Photo 10).
- Manure piles of undermined age were present in Pasture #2 (Photo 15).
- Accumulated manure and ponded wastewater were present at the northern end of Pasture #1 (Photo 11 and 12).
- Improperly stored or disposed chemicals were not observed during the inspection.

TYPICAL DEPTH OF MANURE IN CORRALS:

8 Inches

ESTIMATED FREEBOARD IN FULLEST LAGOON (IF MORE THAN ONE):

5 Feet

DATE OF LAST LAGOON SOLIDS REMOVAL, PER FACILITY REPRESENTATIVE:

Unknown

DISPOSAL LOCATION FOR LAGOON SOLIDS:

**Hauled off-site for
composting**

CONDITION OF BERMS AND CONTAINMENT STRUCTURES:

Multiple lagoons contained rodent holes and excessive vegetation (Photos 13 and 14). A gap in Lagoon #5's northern berm (Photo 18) potentially reduces the available storage capacity in this lagoon. This gap was also noted in the 2008 Santa Ana Regional Water Quality Control Board inspection.

Koot Dairy (8762 Kimball Avenue, Chino) Photo Log
Inspected by: Foster (Tt)

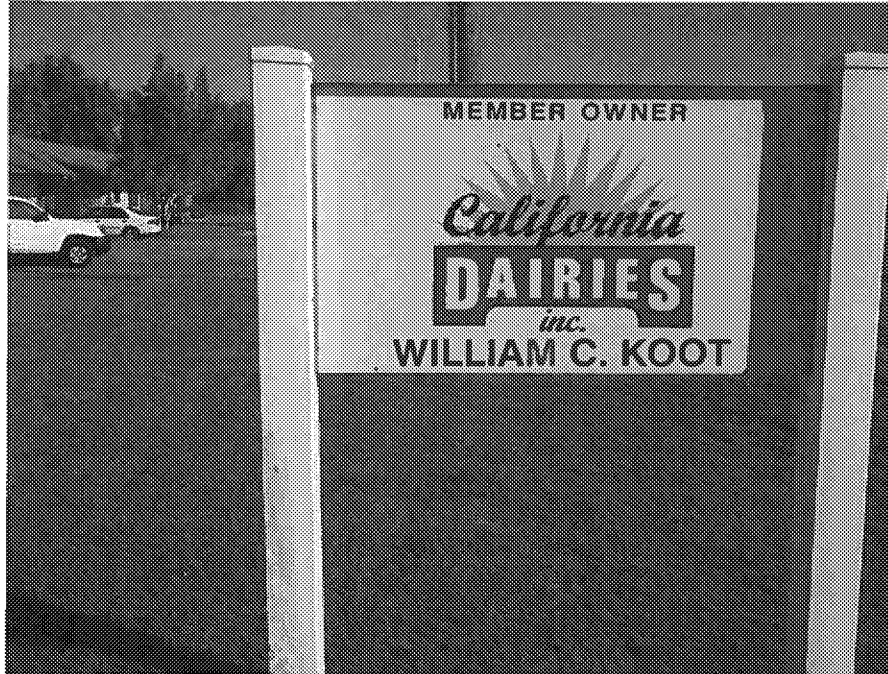


Photo 1: The facility sign

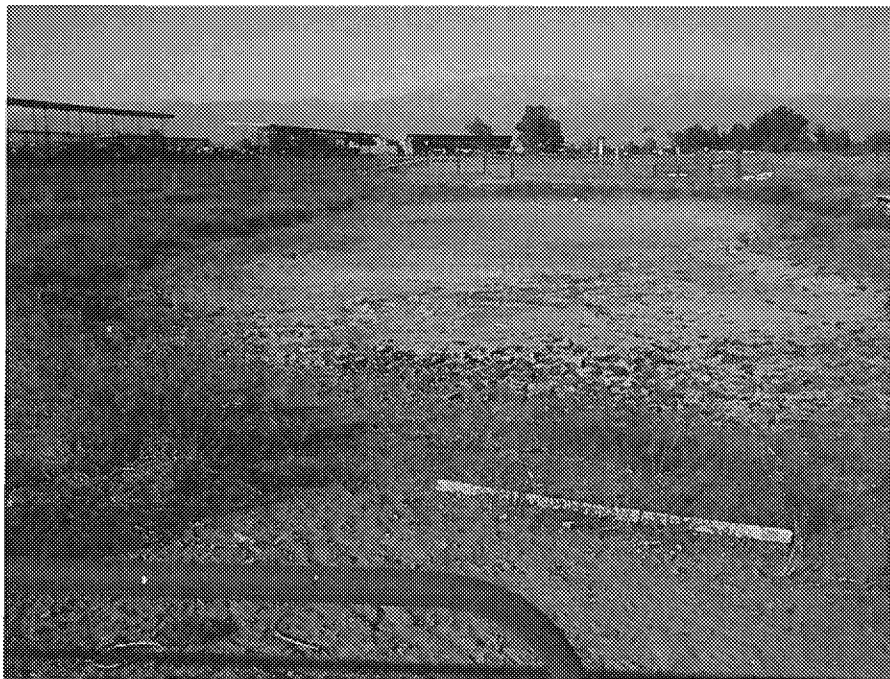


Photo 2: View looking north at Lagoon #2.

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Photo 3: Corral #10 is located at the southeast corner of the facility, view looking east. Corral #10 appeared to be graded so that wastewater would flow south and away from Lagoon #1 (general location circled).



Photo 4: The inspector observed what appeared to be manure and wastewater on the grassy area between the milk barn and Kimball Avenue. Runoff from this area flows into the road ditch along Kimball Avenue.

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Photo 5: Runoff from Corral #9 could flow under the gate and reach the road ditch along Kimball Avenue. The EWMP directs that Corral #9 be regraded to contain wastewater on site.



Photo 6: Milk barn wash water was flowing to Lagoon #1, view looking east.

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Photo 7: The feed lanes were generally free of spilled feed, manure, or other solids; view looking north.



Photo 8: General view of typical corral conditions.

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Photo 9: View looking south at Lagoon #1.



Photo 10: Manure piled in a corral that was being cleaned. The heavy equipment pictured was being used to clean the corral at the time of the inspection.

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Photo 11: View looking south toward Pasture #1. Manure appeared to be accumulating at the pasture's northern end. The dairy's eastern berm is pictured on the left.



Photo 12: View of accumulated manure and ponded wastewater in Pasture #1.

Koot Dairy (8762 Kimball Avenue, Chino) Photo Log
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Photo 13: View looking north at Lagoon #3.

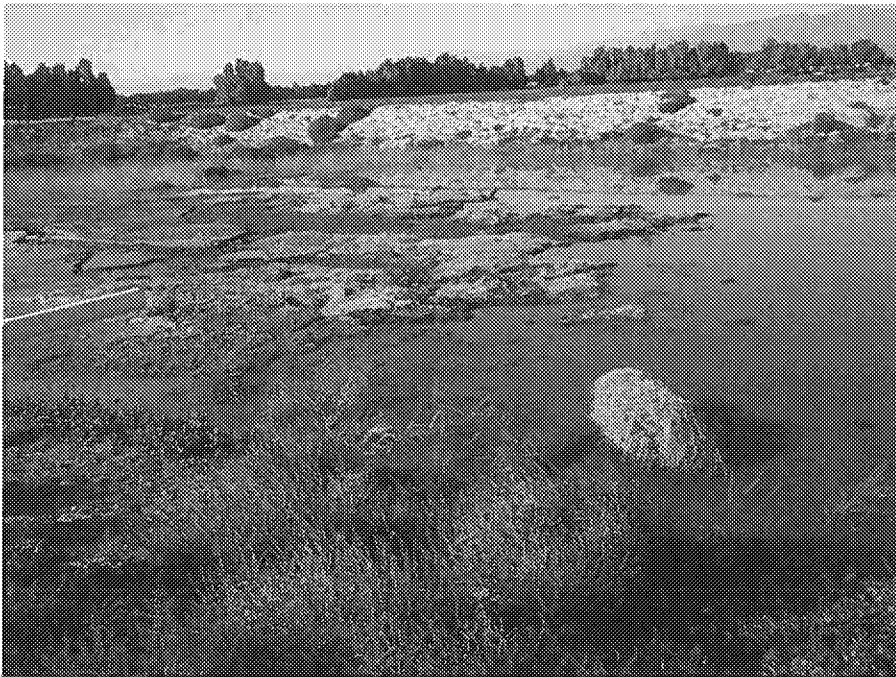


Photo 14: View looking northwest at Lagoon #4.

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Photo 15: View looking southeast toward Pasture #2. Note the manure stockpiles in the background.



Photo 16: View looking east at Lagoon #5. The emergency spillway from Lagoon #5 to Kimball Avenue is visible on the right.

Koot Dairy (8762 Kimball Avenue, Chino) Photo Log
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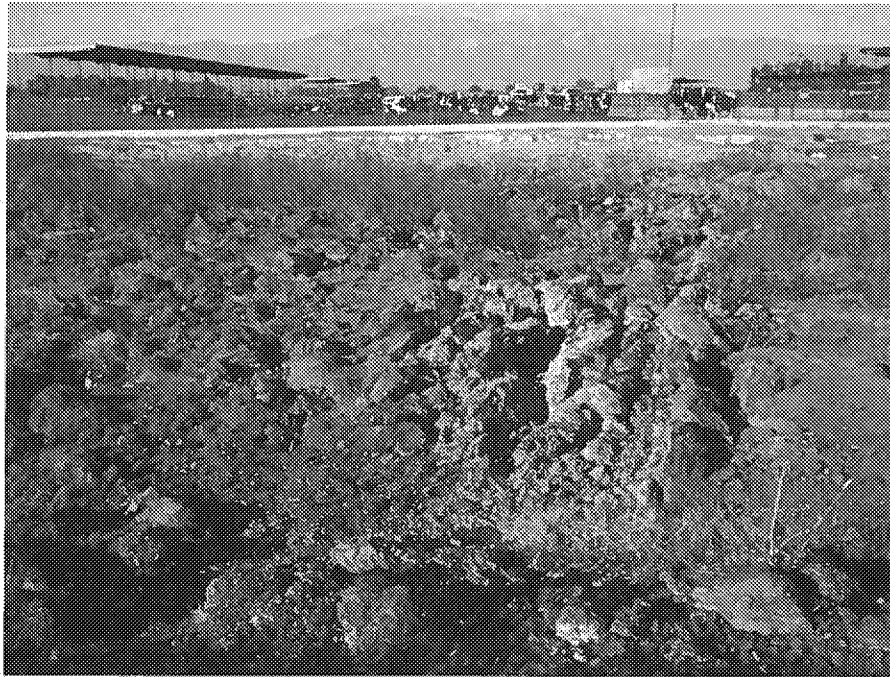


Photo 17: View of accumulated solids in Lagoon #1, looking north.



Photo 18: View of cut in northern berm of Lagoon #5.

